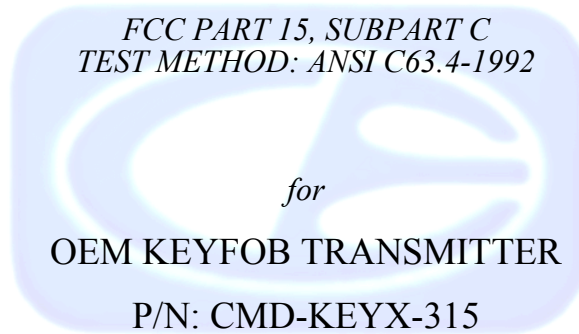




Prepared for

LINX TECHNOLOGIES
575 SE ASHLEY PLACE
GRANTS PASS, OREGON 97526

Prepared by: Kyle Fujimoto

KYLE FUJIMOTO

Approved by: Michael Christensen

MICHAEL CHRISTENSEN

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATE: OCTOBER 30, 2001

	REPORT BODY	APPENDICES				TOTAL
		A	B	C	D	
PAGES	15	2	2	10	13	42

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LIST OF APPENDICES

APPENDIX	TITLE
A	Modifications to the EUT
B	Additional Models Covered Under This Report
C	Diagrams, Charts and Photos • Test Setup Diagrams • Radiated Emissions Photos • Antenna and Effective Gain Factors
D	Data Sheets

LIST OF FIGURES

FIGURE	TITLE
1	Plot Map And Layout of Test Site



GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: OEM Keyfob Transmitter
P/N: CMD-KEYX-315
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Manufacturer: Linx Technologies
575 SE Ashley Place
Grants Pass, Oregon 97526

Test Date: October 26, 2001

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart C, Sections 15.205, 15.209, and 15.231

Test Procedure: ANSI C63.4: 1992

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 450 kHz - 30 MHz	This test was not performed because the EUT runs off one 3-volt lithium cell only and cannot be powered by any device that runs off of the AC public mains.
2	Radiated RF Emissions, 10 kHz - 3200 MHz	Complies with the of CFR Title 47, Part 15 Subpart C, sections 15.205, 15.209, and 15.231



1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the OEM Keyfob Transmitter P/N: CMD-KEYX-315. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Linx Technologies

Paul True

President

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer

Michael Christensen Test Engineer

2.4 Date Test Sample was Received

The test sample was received on October 25, 2001.

2.5 Disposition of the Test Sample

The test sample has not been returned to Linx Technologies as of October 30, 2001.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
CFR	Code of Federal Regulations



3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Subpart C	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators
ANSI C63.4 1992	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.



4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The OEM Keyfob Transmitter P/N: CMD-KEYX-315 (EUT) was tested as a stand alone unit and tested in three different orthogonal axis. The EUT was continuously transmitting during the test. The antenna is a PCB trace. The EUT turns immediately off after the button is released.

Final radiated data was taken in the mode above.



4.1.1 Cable Construction and Termination

There were no cables attached to the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	PART NUMBER	SERIAL NUMBER	FCC ID
OEM KEYFOB TRANSMITTER (EUT)	LINX TECHNOLOGIES	CMD-KEYX- 315	N/A	OJM-CMD-KEYX-XXX



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Radiated Emissions Manual Test – Radiated	Compatible Electronics	N/A	N/A	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08768	June 15, 2001	June 15, 2002
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 15, 2001	June 15, 2002
Preamplifier	Com Power	PA-102	1017	Jan. 5, 2001	Jan. 5, 2002
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 15, 2001	June 15, 2002
Biconical Antenna	Com Power	AB-100	1548	Oct. 11, 2001	Oct. 11, 2002
Log Periodic Antenna	Com Power	AL-100	16089	Oct. 11, 2001	Oct. 16, 2002
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	HP98561A	2522A05178	N/A	N/A
Printer	Hewlett Packard	2225A	2925S33268	N/A	N/A
Plotter	Hewlett Packard	7440A	8726K38417	N/A	N/A
Microwave Preamplifier	Com-Power	PA-122	25195	Jan. 9, 2001	Jan. 9, 2002
Horn Antenna	Antenna Research	DRG-118/A	1053	Jan. 15, 2001	Jan. 15, 2002
Loop Antenna	Com-Power	AL-130	25309	May 21, 2001	May 21, 2002



6. TEST SITE DESCRIPTION

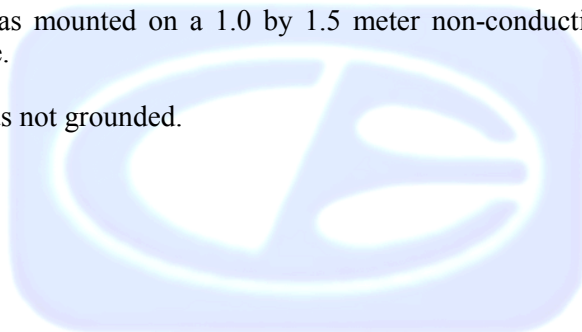
6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com Power PA-122 Microwave Preamplifier was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 4.5 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 1992. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data.



7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the OEM Keyfob Transmitter. A plot of the -20 dB bandwidth is in Appendix D.



8. CONCLUSIONS

The OEM Keyfob Transmitter P/N: CMD-KEYX-315 meets all of the specification limits defined in CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.



APPENDIX A

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modifications:

No modifications were made to the EUT.



APPENDIX B

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

OEM Keyfob Transmitter
P/N: CMD-KEYX-315
S/N: N/A

There were no additional models covered under this report.

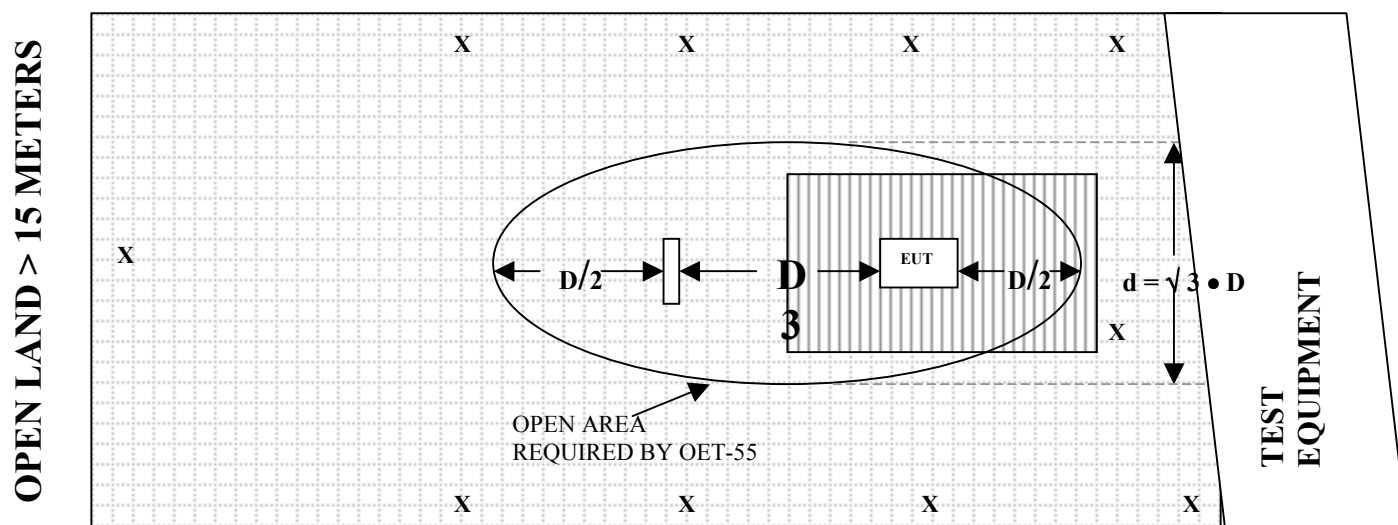


APPENDIX C

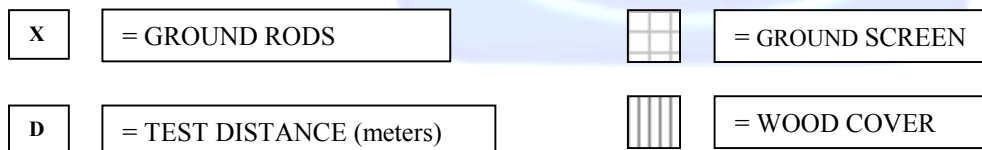
DIAGRAMS, CHARTS AND PHOTOS



OPEN LAND > 15 METERS



OPEN LAND > 15 METERS





FRONT VIEW

LINX TECHNOLOGIES
OEM KEYFOB TRANSMITTER
P/N: CMD-KEYX-315
FCC SUBPART C - RADIATED EMISSIONS – 10-26-01

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**





REAR VIEW

LINX TECHNOLOGIES
OEM KEYFOB TRANSMITTER
P/N: CMD-KEYX-315

FCC SUBPART C - RADIATED EMISSIONS – 10-26-01

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



COM-POWER AB-100
BICONICAL ANTENNA
S/N: 01548

CALIBRATION DATE: OCTOBER 11, 2001

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.70	120	11.00
35	13.70	125	11.20
40	11.80	140	12.50
45	12.30	150	13.20
50	11.00	160	13.50
60	10.40	175	14.60
70	8.60	180	14.40
80	8.30	200	15.90
90	8.30	250	17.60
100	8.80	300	19.90



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16089

CALIBRATION DATE: OCTOBER 11, 2001

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	14.10	700	20.60
400	15.10	800	22.40
500	16.60	900	22.70
600	19.90	1000	26.50



COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: JANUARY 5, 2001

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	39.0	300	38.9
40	39.2	350	38.9
50	39.2	400	38.6
60	39.2	450	38.5
70	38.8	500	38.7
80	38.6	550	38.4
90	38.5	600	38.8
100	38.7	650	38.5
125	39.2	700	38.6
150	38.8	750	38.1
175	38.8	800	37.9
200	39.0	850	38.0
225	38.8	900	37.8
250	38.8	950	36.9
275	39.0	1000	38.2

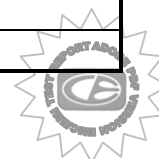


COM-POWER PA-122
MICROWAVE PREAMPLIFIER

S/N: 25195

CALIBRATION DATE: JANUARY 9, 2001

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	33.1	9.5	30.7
1.1	33.0	10.0	31.6
1.2	33.2	11.0	30.6
1.3	33.0	12.0	28.5
1.4	32.4	13.0	31.5
1.5	32.3	14.0	33.2
1.6	32.1	15.0	31.5
1.7	32.0	16.0	30.2
1.8	31.8	17.0	31.6
1.9	32.2	18.0	31.7
2.0	32.6		
2.5	31.9		
3.0	31.7		
3.5	31.7		
4.0	32.3		
4.5	31.5		
5.0	32.3		
5.5	34.2		
6.0	30.9		
6.5	32.0		
7.0	32.1		
7.5	33.0		
8.0	31.9		
8.5	31.9		
9.0	31.3		



ANTENNA RESEARCH DRG-118/A

HORN ANTENNA

S/N: 1053

CALIBRATION DATE: JANUARY 15, 2001

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	25.4	9.5	39.6
1.5	26.7	10.0	39.7
2.0	29.6	10.5	40.8
2.5	30.7	11.0	40.4
3.0	31.2	11.5	42.2
3.5	32.3	12.0	43.0
4.0	33.2	12.5	42.6
4.5	33.2	13.0	41.3
5.0	34.8	13.5	40.3
5.5	35.4	14.0	40.9
6.0	36.6	14.5	44.0
6.5	36.6	15.0	43.3
7.0	38.7	15.5	42.7
7.5	38.6	16.0	42.6
8.0	37.9	16.5	42.8
8.5	37.9	17.0	43.5
9.0	39.9	17.5	44.6
		18.0	42.2



Com-Power Corporation

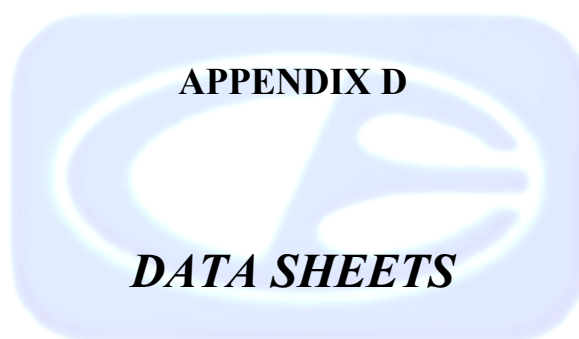
(949) 587-9800

Antenna Calibration

Antenna Type:	Active Loop Antenna	
Model:	AL-130	
Serial Number:	25309	
Calibration Date:	(mm/dd/yy) 05/21/01	
Certificate Number:	071014-R	
Frequency MHz	Magnetic (dB/m)	Electric dB/m
0.009	-40.2	11.3
0.01	-40.2	11.3
0.02	-40.9	10.6
0.03	-39.3	12.2
0.04	-39.7	11.8
0.05	-41.0	10.5
0.06	-40.6	10.9
0.07	-40.8	10.7
0.08	-41.1	10.4
0.09	-41.2	10.3
0.1	-41.2	10.3
0.2	-43.5	8.0
0.3	-41.1	10.4
0.4	-41.0	10.5
0.5	-41.0	10.5
0.6	-40.9	10.6
0.7	-40.8	10.7
0.8	-40.8	10.7
0.9	-40.8	10.7
1	-40.3	11.2
2	-39.7	11.8
3	-40.0	11.5
4	-40.2	11.3
5	-39.6	11.9
6	-39.6	11.9
7	-40.0	11.5
8	-40.3	11.2
9	-39.8	11.7
10	-40.6	10.9
12	-40.7	10.8
14	-40.6	10.9
15	-40.7	10.8
16	-40.7	10.8
18	-40.8	10.7
20	-41.6	9.9
25	-42.8	8.7
30	-43.3	8.2

Separation Distance:

1 meter



RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
315.0000	60.7	54.4 A	H	1.0	90	X		14.3	2.9	0.0	71.5	-4.1	75.6	
315.0000	47.3	41.0 A	H	1.0	0	Y		14.3	2.9	0.0	58.1	-17.5	75.6	
315.0000	57.3	51.0 A	H	1.0	90	Z		14.3	2.9	0.0	68.1	-7.5	75.6	
315.0000	48.1	41.8 A	V	1.0	90	X		14.3	2.9	0.0	58.9	-16.7	75.6	
315.0000	58.3	52.0 A	V	2.0	90	Y		14.3	2.9	0.0	69.1	-6.5	75.6	
315.0000	54.7	48.4 A	V	1.5	90	Z		14.3	2.9	0.0	65.5	-10.1	75.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
630.0000	57.8	51.5 A	H	1.5	90	X		20.1	4.0	38.6	37.1	-18.6	55.6	
630.0000	47.3	41.0 A	H	1.0	90	Y		20.1	4.0	38.6	26.6	-29.1	55.6	
630.0000	56.8	50.5 A	H	2.0	90	Z		20.1	4.0	38.6	36.1	-19.6	55.6	
630.0000	51.4	45.1 A	V	1.0	90	X		20.1	4.0	38.6	30.7	-25.0	55.6	
630.0000	52.5	46.2 A	V	1.0	90	Y		20.1	4.0	38.6	31.8	-23.9	55.6	
630.0000	49.5	43.2 A	V	1.0	90	Z		20.1	4.0	38.6	28.8	-26.9	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
945.0000	51.5	45.2 A	H	1.0	270	X		24.4	5.3	37.0	37.9	-17.7	55.6	
945.0000	46.8	40.5 A	H	1.0	90	Y		24.4	5.3	37.0	33.2	-22.4	55.6	
945.0000	51.1	44.8 A	H	1.0	90	Z		24.4	5.3	37.0	37.5	-18.1	55.6	
945.0000	50.8	44.5 A	V	1.0	90	X		24.4	5.3	37.0	37.2	-18.4	55.6	
945.0000	50.3	44.0 A	V	2.0	90	Y		24.4	5.3	37.0	36.7	-18.9	55.6	
945.0000	49.1	42.8 A	V	1.0	90	Z		24.4	5.3	37.0	35.5	-20.1	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1260.0000	59.8	53.5 A	H	1.0	90	X		26.1	2.6	33.1	49.0	-6.6	55.6	
1260.0000	49.0	42.7 A	H	2.0	90	Y		26.1	2.6	33.1	38.2	-17.4	55.6	
1260.0000	55.0	48.7 A	H	1.5	90	Z		26.1	2.6	33.1	44.2	-11.4	55.6	
1260.0000	57.5	51.2 A	V	1.5	0	X		26.1	2.6	33.1	46.7	-8.9	55.6	
1260.0000	62.7	56.4 A	V	1.5	90	Y		26.1	2.6	33.1	51.9	-3.7	55.6	
1260.0000	51.9	45.6 A	V	1.0	90	Z		26.1	2.6	33.1	41.1	-14.5	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1575.0000	51.3	45.0 A	H	1.0	90	X		27.1	3.1	32.2	43.1	-10.9	54.0	
1575.0000	41.6	35.3 A	H	1.5	0	Y		27.1	3.1	32.2	33.4	-20.6	54.0	
1575.0000	44.1	37.8 A	H	1.5	90	Z		27.1	3.1	32.2	35.9	-18.1	54.0	
1575.0000	52.0	45.7 A	V	2.0	0	X		27.1	3.1	32.2	43.8	-10.2	54.0	
1575.0000	49.7	43.4 A	V	1.0	90	Y		27.1	3.1	32.2	41.5	-12.5	54.0	
1575.0000	43.7	37.4 A	V	1.5	90	Z		27.1	3.1	32.2	35.5	-18.5	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1890.0000	44.8	38.5 A	H	1.0	90	X		29.0	3.4	32.2	38.7	-16.9	55.6	
1890.0000	42.6	36.3 A	H	1.5	180	Y		29.0	3.4	32.2	36.5	-19.1	55.6	
1890.0000	44.9	38.6 A	H	1.0	90	Z		29.0	3.4	32.2	38.8	-16.8	55.6	
1890.0000	46.6	40.3 A	V	1.5	90	X		29.0	3.4	32.2	40.5	-15.1	55.6	
1890.0000	46.5	40.2 A	V	1.5	90	Y		29.0	3.4	32.2	40.4	-15.2	55.6	
1890.0000	45.5	39.2 A	V	1.0	90	Z		29.0	3.4	32.2	39.4	-16.2	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2205.0000	41.9	35.6 A	H	1.0	90	X		30.1	3.7	32.3	37.0	-17.0	54.0	
2205.0000	38.2	31.9 A	H	1.0	90	Y		30.1	3.7	32.3	33.3	-20.7	54.0	
2205.0000	40.3	34.0 A	H	1.5	90	Z		30.1	3.7	32.3	35.4	-18.6	54.0	
2205.0000	40.7	34.4 A	V	1.5	90	X		30.1	3.7	32.3	35.8	-18.2	54.0	
2205.0000	40.0	33.7 A	V	1.0	180	Y		30.1	3.7	32.3	35.1	-18.9	54.0	
2205.0000	39.3	33.0 A	V	1.0	90	Z		30.1	3.7	32.3	34.4	-19.6	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2520.0000	39.1	32.8 A	H	1.0	90	X		30.7	3.6	31.9	35.2	-20.4	55.6	
2520.0000	38.8	32.5 A	H	1.0	90	Y		30.7	3.6	31.9	34.9	-20.7	55.6	
2520.0000	39.0	32.7 A	H	1.5	90	Z		30.7	3.6	31.9	35.1	-20.5	55.6	
2520.0000	38.9	32.6 A	V	1.0	0	X		30.7	3.6	31.9	35.0	-20.6	55.6	
2520.0000	38.1	31.8 A	V	1.5	90	Y		30.7	3.6	31.9	34.2	-21.4	55.6	
2520.0000	38.6	32.3 A	V	1.5	90	Z		30.7	3.6	31.9	34.7	-20.9	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2835.0000	39.1	32.8 A	H	1.0	90	X		31.0	4.6	31.8	36.6	-17.4	54.0	
2835.0000	38.8	32.5 A	H	2.0	90	Y		31.0	4.6	31.8	36.3	-17.7	54.0	
2835.0000	38.8	32.5 A	H	1.5	90	Z		31.0	4.6	31.8	36.3	-17.7	54.0	
2835.0000	38.4	32.1 A	V	1.5	0	X		31.0	4.6	31.8	35.9	-18.1	54.0	
2835.0000	39.1	32.8 A	V	1.5	0	Y		31.0	4.6	31.8	36.6	-17.4	54.0	
2835.0000	38.6	32.3 A	V	1.5	0	Z		31.0	4.6	31.8	36.1	-17.9	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	LINX TECHNOLOGIES	DATE	10/26/01
EUT	OEM KEYFOB TRANSMITTER	DUTY CYCLE	48.00 %
MODEL	P/N: CMD-KEYX-315	PEAK TO AVG	-6.38 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
3150.0000	41.4	35.1 A	H	1.5	90	X		31.5	5.0	31.7	40.0	-15.7	55.6	
3150.0000	38.8	32.5 A	H	1.0	90	Y		31.5	5.0	31.7	37.4	-18.3	55.6	
3150.0000	37.7	31.4 A	H	1.5	90	Z		31.5	5.0	31.7	36.3	-19.4	55.6	
3150.0000	38.5	32.2 A	V	1.5	270	X		31.5	5.0	31.7	37.1	-18.6	55.6	
3150.0000	39.1	32.8 A	V	1.5	90	Y		31.5	5.0	31.7	37.7	-18.0	55.6	
3150.0000	38.9	32.6 A	V	1.5	90	Z		31.5	5.0	31.7	37.5	-18.2	55.6	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

Test location: Compatible Electronics
Customer : LINX TECHNOLOGIES
Manufacturer : LINX TECHNOLOGIES
EUT name : OEM KEYFOB TRANSMITTER
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00
Test Mode :
SPURIOUS EMISSIONS 10 kHz - 3200 MHz
VERTICAL AND HORIZONTAL POLARIZATION
TEMPERATURE 81 DEGREES F., RELATIVE HUMIDITY 45%
TESTED BY: KYLE FUJIMOTO

NO EMISSIONS FOUND FROM 10 kHz to 5000 MHz
IN EITHER POLARIZATION FOR THE EUT

